

Y. Taya et al.
U.S.S.N. 09/618,424
Page 2

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

Claims 1-15 (cancelled).

16 (currently amended): A method for screening a compound that inhibits or enhances activity of an acetyltransferase to catalyze a reaction that transfers an acetyl group from one substrate to another, the method comprising:

- (a) contacting the acetyltransferase with a peptide substrate in a presence of a test compound,
- (b) detecting an amount of an acetylated peptide substrate using an anti-acetylated peptide antibody, wherein the anti-acetylated peptide antibody recognizes only an acetylated form of the peptide substrate and does not recognize the peptide substrate in its unacetylated form, provided that the antibody concentration is 0.01 μ g/ml or greater, 112, 2
- (c) comparing the amount of the acetylated peptide substrate detected in step (b) with a control amount defined as an amount of an acetylated peptide substrate detected in an absence of the test compound, and
- (d) selecting the compound associated with an increase or decrease in the amount of the acetylated peptide substrate as compared to the control amount.

17 (previously presented): The method of claim 16 wherein the peptide substrate is p53.

18 (previously presented): The method of claim 16 wherein the peptide substrate is labeled.

19 (previously presented): The method of claim 18 wherein the label is biotin.

20 (previously presented): The method of claim 16 wherein the peptide substrate is immobilized on a solid phase.

Y. Taya et al.
U.S.S.N. 09/618,424
Page 3

21 (previously presented): The method of claim 16 wherein the anti-acetylated peptide antibody is labeled.

22 (previously presented): The method of claim 16 wherein the amount of the acetylated peptide substrate is detected by ELISA.

DI
cont.
23 (currently amended): A kit for the screening method of claim 16 ~~[[23]]~~, comprising an anti-acetylated antibody, acetyltransferase, and a peptide substrate. L:11 + 6u

24 (new): A kit for the screening method of claim 16, comprising an anti-acetylated antibody, deacetylase, and an acetylated peptide substrate. no deacetylase 103
